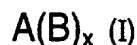


Abstract

The invention relates to novel soluble pigment precursors possessing not only higher thermal stability but also improved solubility characteristics and to a process for mass colouration of high temperature polymers that utilizes these novel soluble pigment precursors.

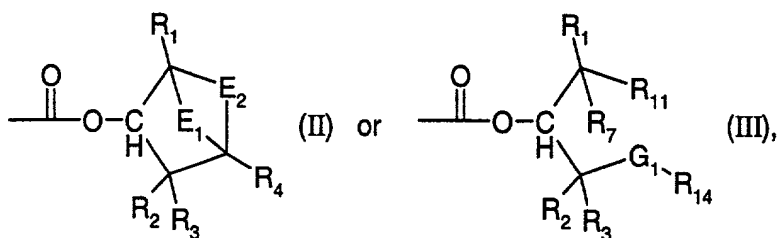
The pigment precursors of the invention are essentially of the formula



where x is an integer from 1 to 8,

A is the radical of a chromophore of the quinacridone, anthraquinone, perylene, indigo, quinophthalone, indanthrone, isoindolinone, isoindoline, dioxazine, azo, phthalocyanine or diketopyrrolopyrrole series, this radical being linked with x B groups via one or more heteroatoms, these heteroatoms being selected from the group consisting of N, O and S and forming part of the radical A, and

B is hydrogen or a group of the formula



although at least one B group is not hydrogen and when x is from 2 to 8 the B groups may be identical or different,

E₁ is oxygen or is selected from the group consisting of methylene, methyleneoxy and ethylene, each member of the group being unsubstituted or substituted by one R₅ or by 2 radicals, R₅ and R₆, or is two separate radicals, R₇ and R₈, R₇ being attached to the same atom as R₁ and R₈ to the same atom as R₄,

E₂ is selected from the group consisting of methylene, ethylene, propylene and butylene, each member of the group being unsubstituted or substituted by one R₉ or by 2

radicals, R₉ and R₁₀, or is two separate radicals, R₁₁ and R₁₂, R₁₁ being attached to the same atom as R₁ and R₁₂ to the same atom as R₄,

G₁ is O or N(R₁₃),

R₁ is hydrogen, methyl, ethyl, methoxy or ethoxy,

R₂ and R₃ are independently hydrogen, C₁-C₈alkyl, C₁-C₈alkoxy, C₁-C₈alkoxy-C₂-C₈alkylene or C₁-C₈alkoxy-C₂-C₈alkyleneoxy,

R₄ is hydrogen, C₁-C₈alkyl, C₁-C₈alkoxy, C₁-C₈alkoxy-C₂-C₈alkylene, C₁-C₈alkoxy-C₂-C₈alkyleneoxy, C₅-C₆cycloalkyl, C₅-C₆cycloalkoxy, phenyl, phenoxy or a 5- or 6-membered, saturated or singly to triply unsaturated heterocyclic radical,

R₅, R₆, R₉, R₁₀ and R₁₂ are independently C₁-C₈alkyl or C₁-C₈alkoxy, or R₆ and R₉ together are a direct bond,

R₇ and R₈ are independently hydrogen, C₁-C₈alkyl, C₁-C₈alkoxy, C₁-C₈alkoxy-C₂-C₈alkylene or C₁-C₈alkoxy-C₂-C₈alkyleneoxy,

R₁₁ is hydrogen, C₁-C₈alkyl or C₁-C₈alkoxy,

R₁₃ is methyl or ethyl, and

R₁₄ is C₁-C₈alkyl, C₅-C₆cycloalkyl, phenyl or a 5- or 6-membered, saturated or singly to triply unsaturated heterocyclic radical.

Also claimed are some materials pigmented according to the invention.